

NIKOLOVA, L.; GRUEV, Iv.; DIMITROV, Iv.

Role of syncardial massage in combined therapy of endarteritis obliterans. Khirurgiia (Sofia) 17 no.1:79-84 '64.

1. Vissh meditsinski institut, Sofia; katedra po propedevtika na khirurgichnite zaboliavaniia. Rukovoditel na katedrata: prof. G. Kapitanov.

GRUEV, Iv.

Ileus caused by a biliary calculus. Khirurgiia (Sofia)  
18 no.5:593-594 ' 65.

1. Katedra po propedevtika na khirurgichnite zaboliavaniia  
(rukovoditel - prof. G. Kapitanov) Vissh meditsinski institut  
Sofia.

GRUEV, TS.

Zhechev, P. Planting rice in the Karaboaz lowland. P.lt.  
KOOPERATIVNO ZEMEDELIE, Sofyia, Vol. 11, no. 3, Mar. 1956.

SO: Monthly List of East European Accessions, (EEAK), LC, Vol. 5, No. 6 June 1956, Uncl.

VITKOV, Metodi, agr.; GRUEV, Tsanko, agr.; MIKHOV, Ivan, agr.

Watering and manuring the fodder corn, a guarantee of high yields.  
Khidrotekh i melior 9 no.7:218-220 '64.

GRUEV, Vuto; TSONKOV, Tsonko; NOZHICHEV, Stefan

Correlations between the egg weight and certain other  
properties of the Stara Zagora red hen. Izv Zhivotn nauki  
1 no.1:19-28 '64.

1. Institute of Animal Husbandry, Stara Zagora.

GERASIMOV, Mikhail prof., inzh.; KAISHEV, Krum, dots., kandidat tekhnicheskoi nauki; RUSCHEV, Dimitur, inzh.; GRUEVA, Todorka, inzh.

Obtaining absorbers through activating certain scoria and carried  
way elements from the Bulgarian coal. Tekhnika 10 no.9:12-15 '61.

(Coal) (Gases --Absorption and adsorption)

GRUGIN, P. L.

USSR/Metallurgy - Cobalt, Diffusion 11 Sep 52

"Application of Artificial Radioactive Indicators for Studying the Processes of Diffusion and Self-Diffusion in Alloys. Self-Diffusion of Cobalt," P. L. Grugin

"Dok Ak Nauk SSSR" Vol 86, No 2, pp 289-292

235T61  
Describes expts for detg temp dependence of self-diffusion coeff of Co using radioactive isotope Co 60. Coeff of self-diffusion was detd at 1,000, 1,050, 1,100, 1,200 and 1,300° C. Graphically relation between self-diffusion coeff D and temp T is expressed by

235T61

straight line in coordinates  $\lg D$  and  $1/T$ , suggesting exponential character of relationship. Submitted by Acad I. P. Bardin 11 Jul 52.

235T61

B-8

COUNTRY : Rumania  
 CATEGORY : Physical Chemistry--Thermodynamics. Thermochem-  
 istry. Equilibria. Physicochemical analysis.\*  
 ABS. JOUR. : RZKhim., No. 21 1959, No. 74192

AUTHOR : Lipa, A., Grigorin, L., and Radu, S.  
 INST. : Rumanian Academy of Sciences  
 TITLE : Investigation of the Mechanism and Kinetics of  
 the Oxidation of Zinc Sulfide

ORIG. PUB. : Studi si Cercetari Metalurgie Acad RPR, 3, No 4,  
 477-490 (1958)

ABSTRACT : A theoretical discussion of the oxidation of the  
 oxidation of ZnS is given together with calculated  
 values for the free energy change of the various  
 possible reactions:

$$\text{ZnS} + 1.5\text{O}_2 = \text{ZnO} + \text{SO}_2$$

$$\Delta F_T^\circ = -107,085 + 22,3479 + 1,3695 \cdot 10^{-3} T^2 -$$

$$0,23075 \cdot 10^{-6} T^3 - 1,7684 T \log T + 0,9615 \cdot$$

$$10^5 T^{-1}$$

(T = 500-1,173°K)

CARD: 1/7 \* Phase transitions.



COUNTRY : Rumania  
CATEGORY :

B-8

ABS. JOUR. : RZKhim., No. 21 1959, No.

74192

AUTHOR :  
INST. :  
TITLE :

ORIG. PUB. :

ABSTRACT :  $\text{ZnS} + 2\text{O}_2 = \text{ZnSO}_4$   
 $\Delta F_T^0 = -184,298 + 61.9477T - 5.523 \cdot 10^{-3} T^2 -$   
 $0.3077 \cdot 10^{-6} T^3 + 17.9932 T \log T - 0.973 \cdot 10^5 T^{-1}$   
( $T = 500-1,013^\circ\text{K}$ )

$\text{ZnS} + \text{ZnSO}_4 = 2\text{Zn} + 2\text{SO}_2$   
 $\Delta F_T^0 = 139,746 - 105.3912T + 5.461 \cdot 10^{-3} T^2 +$   
 $3.2469 \log T + 1.072 \cdot 10^4 T^{-1}$   
( $T = 500-692.5^\circ\text{K}$ )

CARD: 2/7

30

COUNTRY : Rumania  
CATEGORY :

B-8

ABS. JOUR. : RZKhim., No. 21 1959, No.

74192

AUTHOR :  
INST. :  
TITLE :

ORIG. PUB. :

ABSTRACT :  $\Delta F_T^0 = 156,806 - 192.1711T + 3.561 \cdot 10^{-3} T^2 -$   
 $23.928 \cdot 10^3 T^{-1} + 27.4241 T \log T$   
( $T = 692.5-1,180^\circ\text{K}$ )

$\Delta F_T^0 = 202,242 - 167.5918T + 8.161 \cdot 10^{-3} T^2 +$   
 $1.072 \cdot 10^5 T^{-1} + 4.53608 T \log T$   
( $T = 1,180-1,400^\circ\text{K}$ )

$\text{ZnS} + 2\text{ZnO} = 3\text{Zn} + \text{SO}$

$\Delta F_T^0 = 147,340 - 111.4681T - 2.832 \cdot 10^{-3} T^2 -$   
 $1.7745 \cdot 10^5 T^{-1} + 19.4801 T \log T$

( $T = 500-692.5^\circ\text{K}$ )

CARD: 3/7

COUNTRY :Rumania  
CATEGORY :

B-8

ABST. JOUR. : RZKhim., No. 21 1959, No.

74192

AUTHOR :  
INST. :  
TITLE :

ORIG. PUB. :

ABSTRACT :  $\Delta F_T^0 = 149,354 - 69.1937T + 3.3159T \log T - 1.7745 \cdot 10^5 T^{-1}$

(T = 692.5-1,180°K)

$\Delta F_T^0 = 243,506 - 205.5149T + 21.4142T \log T - 1.7745 \cdot 10^5 T^{-1}$

(T = 1,180-1,400°K)

$Zn + 0.5O_2 = ZnO$

$\Delta F_T^0 = -84,140 + 4.63T \log T + 0.69 \cdot 10^{-3} T^2 + 0.44 \cdot 10^5 T^{-1} + 37.47T$

CARD: 4/7

31

COUNTRY : Rumania  
CATEGORY :

B-8

ABS. JOUR. : AZKhim., No. 21 1959, No.

74192

AUTHOR :  
INST. :  
TITLE :

ORIG. PUB. :

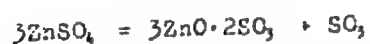
ABSTRACT : (T = 500-692.5°K)

$$\Delta F_T^0 = -84,740 + 0.76T \log T - 0.39 \cdot 10^{-3} T^2 + 0.44 \cdot 10^5 T^{-1} + 23.77T$$

(T = 692.5-1,180°K)

$$\Delta F_T^0 = -115,640 - 5.23T \log T - 0.66 \cdot 10^{-3} T^2 + 0.44 \cdot 10^5 T^{-1} + 68.85T$$

(T = 1,180-1,400°K)



$$\Delta F_T^0 = 71,700 + 1.8T \log T - 73.6T$$

CARD: 5/7

COUNTRY : Rumania  
CATEGORY :

B-5

ABS. JOUR. : RZKhim., No. 21 1959, No.

74192

AUTHOR :  
INST. :  
TITLE :

ORIG. PUB. :

ABSTRACT : (T = 500-1,400°K)



$$\Delta F_T^\circ = 101,640 + 7.0T \log T - 130.0T$$

$$(T = 1,015-1,400^\circ\text{K})$$

Values of  $\Delta F_T^\circ$  and  $\log K_p$  for the above-indicated reactions have been calculated and tabulated for the temperature range 500-1,400°K. The effect of temperature (550-950°C) and of heating time (5-240 min) on product composition has been investi-

CARD: 6/7

COUNTRY : Rumania  
CATEGORY :

B-5

ABS. JOUR. : RZKhim., No. 21 1959, No.

74192

AUTHOR :  
INST. :  
TITLE :

ORIG. PUB. :

ABSTRACT : tested experimentally. A concentrate containing 54.2% Zn, 3.05% Pb, 2.1% Fe, and 31.9% S was investigated. The results obtained are presented in the form of curves giving the Zn [content?] (in %) as a function of the time. The experimental data show that the oxidation of ZnS proceeds via the formation of ZnSO<sub>4</sub> as a primary product. The reaction is accompanied by the formation of primary and secondary sulfate and the oxidation of metallic zinc.

A. Zolotarevskiy

CARD: 7/7

AVRAM, N. Constantin; VOINA, N.I.; PAUNESCU, M.; MEBASTOU, A.; SPULIA, A.

New results of re-vibrating concrete. Bul St de Tehn Tim 2  
no.1:169-185 Ja-Je '61.

GRUIA, E.

6

2872. A contribution to the method of flame-  
photometric analysis. Gr. Pavlascu and E.  
Grui. Rev. Chim., Bucharest, 1958, 7 (11), 857.  
The effect of the presence of different salts in  
a solution to be analysed for Na, K or Ca on the con-  
ditions of excitation and emission are discussed and  
a theoretical interpretation of the results is given.  
Experimental justification for the equations involved  
is provided.  
H. SHER

PM  
MT  
ja  
KRS

RUMANIA / Analytical Chemistry. General.

E

Abs Jour : Ref Zhur - Khimiya, No 23, 1959, No. 81880

Author : Pavlovskii, Gh.; Gruia, E. -

Inst : Not given

Title : Electronometry as a Method of Analysis

Orig Pub : Rev. chim. (RPR), 1959, 10, No 3, 165-167

Abstract : An electrometric titration method is described, based on the dependence of the radiation process on the number of atoms participating in the photometric reaction as well as on the energy state of the optical (valence) electrons of these atoms. Gradual introduction into the photometric reaction of increasing quantities of atoms or molecules, which by interacting with excited atoms change the energy state of their optical electrons, permits the determination

Card 1/3

RUMANIA / Analytical Chemistry. General.

E

Abs Jour : Ref Zhur - Khimiya, No 23, 1959, No. 81880

of the concentration of the substance to be analyzed, the amount and the composition of the compounds obtained as a result of the interaction of the reactants, as well as the study of various biochemical processes in those cases where other methods are not acceptable. The curves obtained in the electrometric titration  $E - N$  (where  $E$  is the photometer reading,  $N$  is the number of ml of 0.1 mM titrant) have inflections at the equivalence points. Results of the electrometric titration of  $\text{CaCl}_2$  with  $\text{H}_3\text{PO}_4$ ,  $\text{H}_3\text{BO}_3$ , and  $\text{AlCl}_3$  solutions, as well as results of the titration of  $\text{CaSiO}_3$  with  $\text{AlCl}_3$  solution are given. In the last case, the existence

Card 2/3

2



RUMANIA / Analytical Chemistry. General.

E

Abs Jour : Ref Zhur - Khimiya, No 23, 1959, No. 81880

of four chemical compounds in the system Ca -  
SiO<sub>2</sub> - Al<sub>2</sub>O<sub>3</sub> has been determined. -- B. Manole

Card 3/3

VAICUM, L.; GRUIA, E.; GODEANU, S.

Determination of some enzymatic activities as a method of research of active mud. Studii cerc biochimie 8 no.1:97-107 '65.

1. Section of Water Protection and Purification, Hydrotechnical Research and Study Institute, Bucharest. Submitted August 6, 1964.

*Gruiu, Em.*

2  
WILITESCU, Livia  
Surnames (in case): Given Name

Country: Rumania

Academic Degree: --

Affiliation: --

Source: Bucharest, Comunicările Academiei Republicii Populare Române,  
No 5, 1961, pp 507-591.

Date: "The Influence of the Preceding Plant on the Nutritional  
Substance Content in the Soil in the Cultivation of Corn."

Co-authors:

GRUIA, Em.  
KERN, G.

GRUIA, Lucian

*Spirulina gracilis* n. sp. of the section *Arthrospira*. Comunicare  
AR 11 no.6:659-663 Je '61.

1. Comunicare prezentata de St. Peterfi, membru corespondent al  
Academiei R.P.R.

GRUIA, Lucian

New algae for the flora of Rumania. Comunicarile AR 12  
no.2:225-230 F '62.

1. Statiunea zoologica, Sinaia, Laboratorul de algologie.  
Comunicare prezentata de St. Peterfi, membru corespondent  
al Academiei R.P.R.

GRUIA, Lucian

New algae in the flora of Rumania. I. Studii cerc biol veget 13 no.4:  
539-545 '61.

1. Statiunea zoologica Sinaia, Laboratorul de algologie.  
Comunicare prezentata de St. Peterfi, membru corespondent al Academiei  
R.P.R. si membru al Comitetului de redactie, "Studii si cercetari de  
biologie; Seria biologie vegetala".

GRUIA, Lucian

New algae for the Rumanian flora. Pt. 4. Comunicarile AR 13  
no.7:619-628 JI '63.

1. Statiunea zoologica Sinaia, Laboratorul de algologie;  
comunicare prezentata de academician St. Peterfi.

GRUIA, Lucian

Cyanophyceae of petroleum-polluted waters. Studii cerc biol  
veget 14 no.3:325-336 '62.

1. Statiunea zoologica, Sinaia, Laboratorul de algologie.  
Comunicare prezentata de St. Peterfi, membru corespondent al  
Academiei R.P.R., si membru al Comitetului de redactie,  
"Studii si cercetari de biologie; Seria biologie vegetala."



GRUIA, Lucian

New algae for the Rumanian flora. Pt.3. Comunicarile AR 13 no.1:  
45-51 Ja '63.

1. Statiunea zoologica Sinaia, Laboratorul de algologie. Comunicare  
prezentata de St. Peterfi, membru corespondent al Academiei R.P.R.

GRUIA, Lucian

Studies on Hydrurus vaucherii C. Ag. alga.  
Studii cerc biol veget 15 no.1:51-69 '63.

GRUIA, Magdalena

Contributions to the study of the Collembola in Rumania.  
Studii cerc biol s. zool 16 no. 3:197-204 '64.

1. "Emil Racovita" Institute of Speleology.

RUMANIA

GRUIA, M. [affiliation not given]

"Account on the Discussions on 'The Etiology and Epidemiology of Zoonoses', Which Was Held During 31 May and 1 June 1963 in Iasi."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 14, No 5, 1963, pp 672-673.

Abstract: The Conference heard 6 major reports and 151 shorter communications on various problems including ornithosis, rickettsioses, leptospiroses, brucelloses, bovine tuberculosis and other zoonoses. It was attended by over 200 specialists in human and veterinary medicine.

- END -

1024, 2050  
CSO: 2000-N

- 19 -

ATHANASIU-STROESCU, P.; GRUIA, M.; PETRESCU, Al.; BRONITKI, Al.

Studies of the neurotropism of various strains of influenza virus. Stud. cercet. inframicrobiol., Bucur. 7 no.3-4:339-353 July-Dec 56.

1. Comunicare prezentata in sedinta Institutului de  
inframicrobiologie al Academiei R.P.R.

(INFLUENZA VIRUSES

neurotropism of various strains, in intranasal &  
intracerebral inoculation in rats)

(BRAIN, pathology

in exper. influenza, neurotropism of various strains of  
viruses)

(LUNGS, pathology

(SAME)

GRUIA, M.

Isolation of several pathogenic agents situated at the lower limit of the rickettsiae, next to the psittacosis group. Stud. cercet. infra-microbiol., Bucur. 8 no.1:131-134 1957.

(RICKETTSIAE

neo-Rickettsiae, isolation, distribution & tox.)

ROMANIA / Virology. Viruses of Man and Animals. Plague Viruses  
of Birds.

E-2

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 99136  
Author : Athanasiu-Strosecu, P.; Petrescu, A.; Gruia, M.  
Inst : Not given  
Title : A Test of the Directed Mutability of the Virus  
of Bird Plague (Adapted to Mice of Strain 863)  
Orig Pub : Studii si cercetari inframicrobiol., microbiol. si  
parazitol., 1957, 8, No 3, 379-386

Abstract : The virus is adapted in the brain of 2 - 3 week  
old rats, causing their illness; in 50 percent of  
the cases it is fatal, in 50 percent - it occurs  
in a hidden form. The virus is also found in the  
ganglia of the sympathetic and parasympathetic nerve  
systems, in the parotid gland, and in the adrenals.

Card 1/2

11

Plague Viruses

E-2

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120001-3"

...cess of adaptation of the virus its patho-  
genicity undergoes changes; the ability to lower  
virulence by passing on mice and rats disappears  
and appears again on chick embryos.

Card 2/2

GRUIA, M.; BALMUS, G.; MITROIU, O.; POPA, M.

Research on certain factors produced by microbial flora of the  
nasopharynx, with inhibitory effect on the influenza virus in vitro.  
Stud. cercet inframicrobiol., Bucuresti, 10, no 2-3, 1958

ATHANASIU, P.; PETRESCU, A.I.; GRUJA, M.; SARATEANU, D.

Biological changes in a strain of influenza virus, cultured in mice vaccinated with antirabies vaccine. Stud. cercet. inframicrobiol., Bucur. 10 no.2:213-218 '59.

1. Comunicare prezentata la Simpozionul asupra epidemiei de gripa, Bucuresti, 4-5 decembrie 1958.

(INFLUENZA VIRUSIS, culture)

(RABIES, immunology)

(VACCINES, pharmacology)



Country: Rumania

Academic Title:

Affiliation: -not given-

Source: Bucharest, Microbiologia, Parazitologia, Epidemiologia, Vol VI,  
No 4, Jul-Aug 1961, pp 327-329.

Data: "Etiological Research on Certain Conditions of a Grippal Nature  
that Occurred in Bucharest During the Early Months of 1960."

Authors:

GRUIA, M., -Dr.-

COPELOVICI, I., -Dr.-

LECCA, C., -Technical Assistant.-

POPESCU, I., -Technical Assistant.-

GPO 981643

GRUIA, M.; COPELOVICI, Y.; POPESCU, I.

Isolation of a virus of the ECHO 12 type from a patient of  
meningitis with exanthem. Stud. cercet. inframicrobiol., Bucur.  
11 no. 1: 107-110 '60.

(MENINGITIS virology)

(EXANTHEMA virology)

COPELOVICI, Y.; GRUIA, M.

Experimental studies on influenza virus strains isolated during the epidemic in February-March in 1959. Stud. cercet. inframicrobiol., Bucur. 11 no.2:301-305 '60.

1. Comunicare prezentata Institutul de inframicrobiologie al Academiei R.P.R.  
(INFLUENZA VIRUSES)

GRUIA, M.; COPELOVICI, Y.; CIOBANESCU, M.; GROZA, M.; DAMIAN, M.

A comparative study of the complement-fixing and hemagglutination-inhibiting antibodies to ECHO<sub>11</sub> and ECHO<sub>19</sub> viruses in children's communities. Studii cerc inframicrobiol Special issue-supplement to 12:203-206 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R.

(VIRUSES) (ANTIGENS AND ANTIBODIES)  
(BLOOD)

COPELOVICI, Y.; GRUIA, M.; ROSCA, M.

Mumps vaccine prepared from autochthonous strains. Studii cerc  
inframicrobiol Special issue-supplement to 12:207-213 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R.

(VACCINES) (MUMPS)

GRUIA, M.; COPELOVICI, Y.; WEINTRAUB, L.; MARC, E.; CIOBANESCU, M.

An epidemic of adenovirosis with exanthema in a closed children's community. Studii cerc inframicrobiol Special issue-supplement to 12:259-263 '61.

1. Institutul de inframicrobiologie al Academiei al Academiei R.P.R.

(ADENOVIRUS INFECTIONS) (EXANTHEMA)

COPELOVICI, Y.; GRUIA, M.; ROSCA, M.

Investigations of the mumps vaccine prepared with autochthonous  
strains. Stud. cercet. inframicrobiol. 12:307-313 Supplement '61.  
(MUMPS immunology) (VACCINES)

GRUIA, M.; COPELOVICI, Y.; WEINTRAUB, L.; MARC, E.; CIOBANESCU, M.

Some aspects of an adenoviral epidemic with exanthema in a closed-  
in children's community. Rev. sci. med. 6 no.1/2:49-52 '61.

(ADENOVIRUS INFECTIONS epidemiology)  
(EXANTHEMA in inf & childh.)



GRUIA, M.; COPELOVICI, Y.; CIOBANESCU, M.; GROZA, M.; DAMIAN, M.

Comparative study of complement-fixing and hemagglutination-inhibiting antibodies against ECHO-11 and ECHO-19 viruses in a children's community. Rev. sci. med. 6 no.1/2:53-56 '61.

(VIRUS DISEASES immunology) (COMPLEMENT)  
(HEMAGGLUTINATION)

GRUIA, M.; COPELOVICI, Y.; ARMASU, V.

Studies on the incidence of hemagglutination-inhibiting antibodies against certain strains of ECHO virus in several groups of people in Bucharest. Stud. cercet. inframicrobiol. Bucur. 11 no.4:579-582 '60.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R.

(VIRUS DISEASES immunology)

MILITESCU, Livia; GRUIA, Em.; HERA, Cr.

Influence of the previous culture on the nutrient contents of the soil under the culture of maize. Comunicarile AR 11 no.5:587-591 My '61.

1. Comunicare prezentata de Amilcar Vasiliu, membru corespondent al Academiei R.P.R.

NICOLESCU, I.V., prof.,dr., laureat al Premiului de Stat; GRUIA, Maria

Elaboration of some criteria for the selection of solid catalysts.  
Rev chimie Min petr 13 no.1:9-15 Ja '62.

1. Membru al Comitetului de redactie, "Revista de chimie" (for  
Nicolescu)

COPELOVICI, Y.; GRUIA, M.; CIOBANESCU, M.; in colaborare cu PETRUSCA, J.;  
BORS, A.; EFANOV, A.; HONDOR, C.

Investigations of the immunogenic value of a mumps vaccine prepared  
with autochthonous strains. Stud. cercet. inframicrobiol. 13 no.4:  
473-480 '62.

(MUMPS VIRUS) (VACCINES) (IMMUNIZATION)

:

CAJAL, N.; IANCONESCU, M.; ADERCA, I.; GRUIA, M.; CEPLEANU, K.;  
DANIELESCU, S.; OPRESCU, E.; CIOBANESCU, M.

Serological investigations on children vaccinated with  
inactivated or live modified virus antipolio vaccines.  
Rev. sci. med. 8 no. 1/2:11-13 '63.

(POLIOMYELITIS) (POLIOVIRUS VACCINE) POLIOVIRUS VACCINE, ORAL)

GRUIA, Mignon; BRANESCU, Lucia; BOTIS, S.; BILLET, Sigmund; SAMUEL, I.;  
Asist. Labor. MURGU, Maria

Infectiousness of ribonucleic acid extracted from ECHO 7 and  
ECHO 9 viruses. Soud. cercet. inframicrobiol. 16 no.1:47-51  
'65.

L 30763-66 EWP(j) RM

ACC NR: AP6020250

SOURCE CODE: RU/0003/65/016/11-/0550/0560

AUTHOR: Nicolescu, Ala; Gruia, Maria; Nicolescu, I. V. (Winner of the State Prize; Professor; Doctor)

ORG: Research Center in Organic Chemistry, Academy of the Socialist Republic of Rumania (Centrul de Cercetari in Chimia Organica al Academiei Republicii Socialiste Romania)

TITLE: Active alumina as a support for catalysts

SOURCE: Revista de chimie, v. 16, no. 11-12, 1965, 550-560

TOPIC TAGS: alumina, aluminum hydroxide, aluminum oxide

ABSTRACT: A critical discussion of catalytic aluminas. The authors discuss the structural forms under which aluminum hydroxides and oxides occur and the correlation of form with catalytic activity; surface chemistry and physical properties are also examined. Experimental data is cited to show that catalytic activity can be raised 2 to 10 times by influencing isomerization activity through the introduction of organic surface agents in the precipitation medium. [Based on authors' Eng. abstract] [JPRS]

SUB CODE: 07 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 037

SOV REF: 006

Card 1/1 JS

UDC: 661.862.22:66.097.5



MILLEA, Aurel, ing.; GRUIA, N., ing. (Bucuresti)

High-precision installation for determining the current transformers. Electrotehnica 12 no.5:189-196 My'64.

1. Head of Laboratory, Institute of Metrology Bucharest (for Millea). 2. Researcher, Institute of Metrology Bucharest (for Gruia).

L 1201-66 EEC(k)-2

ACCESSION NR: AP5025837

RU/0004/65/000/003/0081/0083

AUTHOR: Millea, Aurel (Candidate of technical sciences, Engineer, Head of laboratory) (Bucharest); Gruia, Nicolae (Engineer, Researcher) (Bucharest) 25

TITLE: Precise measurement of active power in the voltage coils of alternating current measuring apparatus 9W

SOURCE: Electrotehnica, no. 3, 1965, 81-83

TOPIC TAGS: electric measurement, electric measuring instrument, alternating current, electric engineering

ABSTRACT: The authors describe the method used to measure low-power alternating current by means of a standard wattmeter and an inductive current comparator of their design, and present the results of their measurements of the current in the voltage coils of electric meters. Orig. art. has: 3 figures and 1 table.

ACCESSION: Institutul de Metrologie (Institute of Metrology)

SUBMITTED: 12Nov64

ENCL: 00

SUB CODE: EE

NR REF SOV: 000

OTHER: 002

JPRS

C-2 d 1/1 mlu

9.3120

82170  
S/048/60/024/06/15/017  
B019/B067

AUTHORS: Arifov, U. A., Ayukhanov, A. Kh., Gruich, D. D.

TITLE: On the Problem of Scattering of Slow Alkali Ions From a Metal Surface 21

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 6, pp. 710-714

TEXT: This is the reproduction of a lecture delivered at the 9th All-Union Conference on Cathode Electronics from October 21 to 28, 1959 in Moscow. For the experiments described here the authors used the experimental arrangement described by Arifanov et al. (Refs. 4, 5, and 6) in previous papers with minor modifications. Figs. 1, 2 and 3 show the dependences of the scattering coefficient on the energy of  $\text{Na}^+$  and  $\text{K}^+$  ions in the bombardment of a pure tungsten surface, on the energy of  $\text{Cs}^+$  ions in the bombardment of a well purified Ni-surface and a less well purified Ni-surface, and the dependence of  $\eta$  on the energy of  $\text{Na}^+$  and  $\text{K}^+$  ions in the bombardment of a pure tungsten surface.  $\eta$  denotes the ratio of the limiting energy of scattered ions and the energies of primary ions.

Card 1/2

On the Problem of Scattering of Slow Alkali Ions  
From a Metal Surface

82170  
S/048/60/024/06/15/017  
B019/B067

Furthermore, the voltampere characteristics of secondary ion emissions are shown in Figs. 4 and 5. In the discussions of the results it is pointed out that the scattering coefficient attains its maximum value when the energy of primary ions attains the value of the bonding energy of atoms in the target. For this maximum value, 45 and 43 ev are given for pure tungsten, and 42 ev for pure Ni. In the further discussion of the results the dependence of  $\eta$  on the energy of primary ions (Fig. 3) is explained by the influence exercised by the bonding energy of target atoms. There are 5 figures and 8 references: 7 Soviet and 1 German.

UX

Card 2/2

ARIFOV, U.A., akademik; GRUICH, D.D.; MIRRAKHIMOVA, Kh.; MUZHAVIROV, S.Z.

Study of the secondary emission provoked by fast neutral  
atoms of alkali metals. Dokl. AN SSSR 143 no.1:69-71 Mr '62.  
(MIRA 15:2)

1. Institut yadernoy fiziki AN Uzbekskoy SSR. 2. AN  
Uzbekskoy SSR (for Arifov).

(Ions)

(Alkali metals)

ACCESSION NR: AP4025897

S/0166/64/000/001/0053/0060

AUTHORS: Gruich, D. D.; Rakhimbayeva, N.; Ikramov, G.; Arifov, T.

TITLE: Investigations of secondary ion emission under bombardment of metals by low energy ions

SOURCE: AN UzSSR. Izv. Seriya fiziko-matematicheskikh nauk, no. 1, 1964, 53-60

TOPIC TAGS: secondary ion emission, ion beam, alkaline ion, barium, tungsten target, molybdenum target, modulated beam, ionization potential pump DRN 10, oscillograph EO 7, lamp 6Zh7

ABSTRACT: Curves of secondary emission coefficient  $K$  in relation to beam energy of  $\text{Na}^+$ ,  $\text{K}^+$ ,  $\text{Rb}^+$ ,  $\text{Cs}^+$ , and  $\text{Ba}^+$  ions on cold W and Mo targets were obtained for energy levels  $E_0 \leq 400$  ev. The alkali ions and  $\text{Ba}^+$  were obtained from surface ionization of alkali-halide and  $\text{BaCl}_2$  vapors entering a heated tungsten filament in a vaporizer. The target chamber was evacuated by a DRN-10 pump and degassed at 2200K (Ni at 1200K, Ta at 1700K). The double modulation oscillograph technique was used to determine the secondary ion energies. The primary beam intensity was  $5 \times 10^{-9}$  amps modulated by a P-pulse with an 80-300 cycle frequency. The EO-7

Cord 1/2

ACCESSION NR: AP4025897

oscillograph with a 6Zh7 lamp was used. The K in respect to  $E_0$  curves for  $Ba^+$  showed values less than half those for alkali ions in all energy ranges because of larger mass of  $Ba^+$  ions and their higher ionization potential  $V_1$ . For both W and Mo targets,  $Cs^+$  ions showed the highest K values. For  $m_1 > m_2$  all the  $K = f(E_0)$  curves go through a maximum at  $E_0 \approx 40$  ev, whereas for ions with  $m_1 < m_2$  (e. g.,  $Cs^+$  and  $Ba^+$  on Mo) the maxima shift toward higher energies. Results are also given for cold and hot (1500K) Ta targets bombarded by  $Rb^+$  ions. Orig. art. has: 6 figures.

ASSOCIATION: Fiziko-tehnicheskiy institut AN UzSSR (Physicotechnical Institute, AN UzSSR)

SUBMITTED: 19Jun63

DATE ACQ: 17Apr64

ENCL: 00

SUB CODE: NP

NO REF SOV: 010

OTHER: 001

Card 2/2

L 46294-65 EWT(m)/EPF(n)-2/I/EWP(t)/EWP(b)/EWA(c) Pu-4 IJP(c) JD/JG  
 UR/0058/65/000/003/H069/J069

ACCESSION NR: AR5012302

SOURCE: Ref. zh. Fizika, Abs. 3Zh430

AUTHOR: Arifov, U. A.; Gruich, D. D.

TITLE: Electrical spectra of positive ions of alkali metals scattered from tungsten and molybdenum in the low-energy primary ion region

CITED SOURCE: Dokl. AN UzSSR, no. 7, 1964, 18-22

TOPIC TAGS: ion emission, alkali metal ion

TRANSLATION: The electrical spectra of secondary ions of  $\text{Na}^+$ ,  $\text{Li}^+$  and  $\text{Cs}^+$  from a tungsten target and  $\text{K}^+$  ions from a molybdenum target, were obtained using a  $127^\circ$  cylindrical condenser. Primary ion energies  $E_0$  were 20-500 ev. It was found that for  $E_0 > 400$  ev the maxima  $E_{\text{max}}$  in the high energy portions of the spectra correspond to single ions elastically scattered from free target atoms. Ions with energies greater than and less than  $E_{\text{max}}$  correspond to multiple scattered ions. Ions with maximum energies correspond to no more than triple scattering. The lower limit of the spectrum reaches to zero. For  $E_0 < 400$  ev the scattering process is complicated by the appearance of bonding energy between target atoms. However, the

Card 1/2



L 46294-65

ACCESSION NR: AR5012302

effect of  $E_0$  on  $E/E_0$ --energy ratios of secondary to primary ions--indicate that down to the very lowest values of  $E_0$  ion scattering does not occur from the target as a whole, although an increase in the role of bonding energy between target atoms is observed. Original has 10 references. V. Shustrov

SUB CODE: NF

ENCL: 00

SR  
Card 2/2

L 2105-66 EWT(1)/EWT(m)/EPA(sp)-2/EPF(c)/EPA(w)-2/EWP(t)/EWP(z)/EWP(b) IJP(c)

ACCESSION NR: AR5014649 JD/HW/JG/AT UR/0275/65/000/005/V003/V004  
621.38:62

SOURCE: Ref. zh. Elektronika i yeye primeneniye. Sv. t.; Abs. 5V20

AUTHOR: Arifov, U. A.; Gruich, D. D.

TITLE: Energy spectra of slow ions emitted by a metal surface as a result of ion bombardment

CITED SOURCE: Dokl. AN UzSSR, no. 11, 1964, 20-23

TOPIC TAGS: ion bombardment, slow ion, energy spectrum

TRANSLATION: Energy spectra of slow  $\text{Cs}^+$  ions emerging from pure cold and hot  $\text{Ni}^{2+}$ ,  $\text{Mo}^{2+}$ , and  $\text{W}$ -targets were studied by means of a  $127^\circ$  cylindrical capacitor with a resolution  $\Delta E = 0.5$  ev. The secondary ions were analyzed at an angle of  $135^\circ$  with respect to the direction of the primary  $\text{Cs}^+$  ions which fell on the target normally. Thermionic-emission and slow-ion peaks are resolved in the spectra. The slow-ion spectrum width is independent of the target temperature; however, it increases in the same order as the atom bond energies

Card 1/2

L 2105-66

ACCESSION NR: AR5014649

in the Ni-, Mo-, and W-targets. With the experimental spectra plotted in semi-logarithmic scale, their right-of-maximum branches well register with the straight lines whose slopes are in the same order. This permits presuming that the slow ions acquire their energy from intense oscillation of atoms in that target section which is excited by the ion bombardment. Bibl. 3.

SUB CODE: NP

ENCL: 00

Card 2/2

L 12038-65 EWT(1)/EWG(k)/EWT(m)/EPF(c)/EPF(n)-2/EPR/EPA(w)-2/EEC(t)/T/EEC(b)-2/  
EWP(b)/EWA(m)-2 Pz-6/Pab-10/Pr-4/PS-4/Pu-4 IJP(c)/AS(mp)-2/SSD/ASD(a)-5/AEDCB/  
ACCESSION NR: AP4045289 BSD/AFWL/ASD(p)-3/ESD(gs) 8/0048/64/028/009/1402/1408  
JD/WW/JG/AT

AUTHOR: Arifov, U.A.; Gruich, D.D.; Chastukhina, L.Yu.

TITLE: Some distinctive features of secondary emission in bombardment of metals  
by low energy ions /Report, Tenth Conference on Cathode Electronics held in Kiev,  
11-18 Nov 1963/ 21

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.9, 1964, 1402-1408

TOPIC TAGS: ion bombardment, low energy, secondary emission, ion energy, ion emis-  
sion

ABSTRACT: The energy distributions of the secondary ions emitted by W, Mo and Ta  
targets bombarded by  $\text{Na}^+$ ,  $\text{K}^+$ ,  $\text{Rb}^+$ ,  $\text{Cs}^+$  and  $\text{Ba}^+$  ions accelerated to from 30 to 420  
eV were investigated. The measurements were undertaken to elucidate certain previ-  
ously discovered peculiarities of the energy spectra: the existence of a group of  
low energy secondary ions, and the excess of the energy of the elastically scatter-  
ed group over that permitted by the conservation laws for a singly scattered ion.  
The ion source and the method of determining the secondary emission coefficient  
have been described elsewhere (D.D.Gruich, N.A.Rakhimbayeva and T.U.Arifov, Izv.AN

1/3

L 12038-65  
ACCESSION NR: AP4045289

UzSSR, ser. fiz.-mat. nauk, No. 1, 53, 1984). The ions were incident normally on the target over a  $2 \times 18 \text{ mm}^2$  area at a current density of  $10^{-6} \text{ A/cm}^2$ , and the secondary ions were observed at an angle of  $135^\circ$ . The secondary ions passed through a  $127^\circ$  cylindrical electrostatic analyzer (resolution 1.5%) to which a sawtooth potential was applied, and the energy distribution was displayed on an oscilloscope. The uncertainty in the energy of the elastically scattered ions due to the finite acceptance angle of the analyzer was 1.2%. The targets were outgassed for two days under high vacuum and at high temperature ( $2200^\circ \text{K}$  for the W and Mo targets); the working pressure was  $5 \times 10^{-8} \text{ mm Hg}$ . The results are presented in the form of curves showing the secondary emission coefficients as functions of the incident ion energy group; for the latter curves are also given showing the secondary emission coefficients as functions of the secondary ion energy. The secondary emission coefficients for both groups increase with decreasing incident ion energy, slowly at first and then more rapidly, and reach maxima at low or moderate energies. As functions of the secondary ion energy, the emission coefficients for the slow group (at 200 eV incident energy) were of the order of 10% at 5.3 eV and increased with decreasing energy to 25 to 55% at 3.9 eV. The ratio of the energy of the elastically scattered group to the incident ion energy for  $\text{K}^+$  on Mo increased with decreasing in-

2/3

L 12038-65  
ACCESSION NR: AP4045289

cident ion energy from the theoretical value for single scattering event, namely, 0.22 at 400 eV to about 0.44 at 40 eV, the increase being most rapid below 80 eV. These results are discussed at some length, and it is tentatively concluded that the excess energy of the elastically scattered group is due to multiple scattering from single target atoms rather than single scattering from groups of atoms, and that the slow group is due to the emission of adsorbed ions as the result of lattice vibrations excited by the incident beam. Orig.art.has: 3 formulas and 7 figures.

ASSOCIATION: Fiziko-tehnicheskiy institut AN UzSSSR (Physicotechnical Institute, AN UzSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: NP, MM

NR REF ROW: 011

OTHER: 000

3/3

Energy spectra of slow ions emitted from the surface of a  
metal during ionic bombardment. Dokl. Akad. Nauk SSSR, no. 11,  
20-23, 1964. (MIRA 13.12)

I. Firikoz-Khachatsky Institut A. N. Uzb. S. S. R. Akad. Nauk  
Uz. SSR (for Arifov). Submitted April 15, 1964.

GRUICI, C., candidat in stiinte economice

Problems of labor organization in collective farms.

Probleme econ 15 no.3:76-88 Mr '62.



GRUIESCU, H.

An important objective; a complete utilization of bus and truck parks. Munca sindic 6 no.7:33-36 J1 '62.

GRUIESCU, H.

Strengthening the discipline in the field of production, an important objective of the education and cultural activities. Munca sindic 6 no.10:32-34 0 '62.

GRUIESCU, H.; CRISAN, A.

Themes of labor legislation. Munca sindic 7 no.7:60-62 J1 '63.

GRUIESCU, H.

Starting with the city morbidity analysis. Munca sindic 7 no.11:  
61-62 N '63.

14(10)

RUM/2-11-9-18/42

AUTHOR: Gruiescu, I.S., Scientific Researcher

TITLE: The Bulgarian People's Republic on its 15th Anniversary

PERIODICAL: Stiință și Tehnică, Seria a II-a, Vol 11, Nr 9,  
pp 28-29 (RUM)

ABSTRACT: Since 1945, the industrial development of Bulgaria has made considerable progress. The first Bulgarian metallurgical plant, the "Lenin" Metallurgical Plant, was constructed in Dimitrovo. It produces pig iron, steel and rolled goods. In the near future, a new Siderurgical Combine will be constructed near Sofia, where large iron ore deposits have been found. On the basis of the nonferrous metal deposits at Rodopi, the first Lead and Zinc Plant was constructed in Madan. The "Georgi Dimitrov" Copper Refinery in Zlatitsa was inaugurated on 6 December 1958. Bulgaria now produces pig iron, steel, lead, zinc, electrolytic copper, silver, bismuth and rolled goods. Most of the Bulgarian industry, including mechanical and electrical engineer-

Card 1/3

BUCKI, Leslaw; GRUIN, ~~frma~~; KRUKOWSKI, Zdzislaw

Properties of epoxy glues modified with polyvinyl acetals.  
Polimery tworzyw wielk-8 no.1:23-29 Ja '63.

1. Instytut Lotnictwa, Warszawa.

L 21525-66 EWP(j)/EWP(k)/EWT(d)/EWT(m)/T/EWA(d)/EWP(w)/EWP(v)/EWP(t) IJP(c)  
ACC NR: AP6007976 (A) SOURCE CODE: UR/0191/66/000/003/0071/0073  
EM/RM/WW/JD/HM  
AUTHOR: Gruin, I. (Warsaw); Krukovski, Z.; Butskiy, L.  
ORG: none  
TITLE: Properties and applications of ME-1 adhesive  
SOURCE: Plasticheskiye massy, no. 3, 1966, 71-73  
TOPIC TAGS: epoxy resin, epoxy adhesive, modified epoxy adhesive, polyvinyl butyral, adhesion strength  
ABSTRACT: Hot-cure epoxy adhesives, which otherwise exhibit good properties, are rigid and have a low adhesion strength to metals in stripping tests. Modification of these epoxy adhesives with poly(vinyl butyral) resulted in the development of a new adhesive, designated ME-1, which exhibits high strength in stripping tests. The ME-1 adhesive consists of epoxy resin and poly(vinyl butyral) (optimum ratio 1/1), and cyanoguanidine curing agent. The shelf life of the adhesive is not less than 1 year. The adhesive can be cured at 151 to 175C for 4 to 1.5 hr under a pressure of 2—3 kg/cm<sup>2</sup>. It can be used in solution or in film form. The adhesive exhibits the following properties: fatigue strength when sandwiched between sheet metal 2 and 3 mm thick, 53.5 and 73.0 kg/cm<sup>2</sup>, respectively; shearing strength at 20 and 80C, 360—400 and 260 kg/cm<sup>2</sup>, respectively; and adhesive strength in stripping tests at 20 and 80C, 5—7 and 8—10 kg/cm<sup>2</sup>, respectively. The main areas of application of ME-1 adhesive in solution form are aluminum foil-plastic honeycombs, and in film  
Card 1/2 UDC: 638.395.6

L 21525-66

ACC NR: AP6007976

form, in continuous glue lines and for metal facing of metal-plastic honeycombs. The bonding strength in such cases exceeds that of the honeycomb material<sup>3</sup> proper. The strength of the adhesive is governed by the choice of the epoxy resin, the quality of the poly(vinyl butyral), and by the use of the materials in the proper ratio. The ME-1 adhesive can find application in aviation technology. Orig. art. has: 6 figures. [B0]

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 002/ SOV REF: 001  
ATD PRESS: 4222

Metal glueing<sup>18</sup>

Card 2/2 PB



Gruin, I. P.

3250. Determination of the pH of alkaline solutions by means of colour filters. R. B. Yatsunirskiy, I. P. Gruin and F. D. Kashirina (Vysheva Chem. Technol. Inst.). *Zavod. Lab.*, 1956, 22 (5), 271-275.  
—By measuring the extinctions of a soln. containing an indicator with two different colour filters it is possible to calculate the pH (*Ibid.*, 1953, 19, 1139). The method is applied to the determination of pH over the range 7.5 to 13.4. G. S. Summ.

Chem

AM

GENIYEV, A.Ye.; ISLAKOVA, M.B.

Conditions for the reduction of lead sinters. Izv. vys. ucheb.  
zav.; tsvet. met. 7 no.6:51-55 '64. (MIRA 18:3)

1. Severokavkazskiy gornometallurgicheskiy institut, kafedra  
metallurgii tyazheiykh tsvetnykh metallov.

GEORGIJEV, Krsto; SERAFIMOV, Koco; DAVCEV, Penco; GRUJEV, Vojislav

Stomach cancer -- 10 years clinical experience. God.Zborn.  
Med.Fak.Skopje no.10:165-172 '63.

1. Univerzitetska Hirurska klinika (Upravnik prof. d-r  
B. Dragojevic) i Univerzitetska Interna klinika (Upravnik  
prof. d-r D. Arsov), Skopje.

... .., R.

"The work of meteorologists and sound wave detectors in sound recording units." p. 40.  
(Vojni Glasnik. Vol. 7, no. 7, Sept. 1953. Beograd)

SO: Monthly List of East European Accessions. Vol. 3, no. 3. Library of Congress. March 1954.

GRUJEVSKI, T.

Yugoslavia (430)

Agriculture - Plant and Animal Industry

For a harmonious relationship between the principal and  
secretary divisions of the working peasant cooperatives.  
p. 39. SOCIALISTICKA POLJOPRIVREDA, Vol. 2, no.6,  
June 1951

East European Accessions List, Library of Congress,  
Vol. 1, no. 14, Dec. 1952. UNCLASSIFIED

PETROVIC, Milan; GRUJIC, Andjelija

Serofibrinous pleurisy in children treated with Nedeljkovic's filtrate. Srpski arh. celok. lek. 85 no.4:426-430 Apr 57.

1. Decje odelenje Gradske bolnice u Zemunu. Sef: primarij dr. Staja Stajic.

(PLEURISY in inf. & child

ther., Nedeljkovic's filtrate in serofibrinous pleurisy (Ser))

LEUCIC, ..

Control card for statistical control of tolerances in the metal industry. p. 125. (SECURITY  
Vol 10, No. 1, 1955.)

EO: Monthly List of East European Accessions. (REAL, 10, Vol 4, No. 6, June 1955, Uncl.

GRUJIC, B.

Statistics of operating time of machines in industry and advantages in knowing them. p. 1338

TEHNIKA, Beograd, Vol 10, No. 9, 1955

SO: EEAL, Vol 5, No. 7, July 1956



GRUJIC, Branimir, ing., asistent

Testing of a steel portal tower with tendons for transmission line  
of 220 kV. Saop Inst isp mat Srb 9 no.15:59-72 J1 '61.

GRUJIC, Branimir, inz., asistent

Testing of the bridge on the Vrbas-Backo Dobro Polje highway over the  
Dunav-Tisa-Dunav Canal. Saop Inst isp mat Srb 10 no.16:40-4) Mr '62.

GRUJIC, Branimir, inž., asistent

Testing the floor framings in prestressed concrete, developed by  
Civil Engineer Branko Zvezelj. Saop Inst isp mat Srb 10 no.18:  
32-45 S '62.

GRUJIC, Branislav, inz., asistent

Testing the highway bridge over Drina River near the mouth of  
Lim River, on the Visegrad-Ustipraca highway. Saop Inst isp mat  
Srbi 10 no.18:46-54 S '62.

GRUJIC, Branimir, inz., asistent

Analysis of the results of measurements made in the trial loading tests of the Novi Sad highway bridge. Saop Inst isp mat Srb 11 no. 19:46-59 My '63.

1. Institut za ispitivanje materijala NR Srbije.

GRUJIC, Branimir, dipl. inz., asistent

Strain distribution in the elements of the Pancevo Bridge, and  
behavior of the composite structure of its road track. Saop  
Inst isp mat Srb 12 no.21:29-43 Ag '64.

1. Institute of Testing Materials of Serbia, Belgrade.

GRUJIC, D.

Investigation of deterioration of the technological quality of wheat affected with blight. p.1797. TEHNIKA. Beograd. Vol. 10, no. 12, 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress Vol. 5, No. 6, June 1956

CRUJIC, D.

Some problems of the flour-milling industry of Yugoslavia. p. 1193.

(TEHNIKA. Vol. 12, No. 7, 1957, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 10, October 1957. Uncl.



1.1.1.1.1.

GRUBIC, M. Critical review of the article "Solution of the Problem of Street Traffic in Zagreb."

Vol. 3, No. 7, July 1955 CESTE I MOSTOVI Zagreb, Yugoslavia.

SO: Monthly List of East European Accessions, (LEAM), IC, Vol. 5, No.3  
March, 1956

GRUJIC, Miroslav, dr., Zagreb

Work survey and treatment of injuries at traumatological hospital  
in Zagreb from 1952-53. Narodno zdrav., Beogr. 10 no.6:173-181  
1954.

1. Traumatoloska bolnica Medicinskog fakulteta Sveucilista u  
Zagrebu; ravnatelj doc. dr. Miroslav Grujic.  
(WOUNDS AND INJURIES, statis.  
Yugosl.)  
(ACCIDENTS  
indust., Yugosl.)

GRUJIC, Miroslav, primarius d-r

Role of traumatology in the framework of medical services. Voj.san.  
pregl., Beogr. 17 no.9:879-882 S '60.

1. Medicinski fakultet u Zagrebu, Traumatoloska bolnica.  
(ACCIDENTS)

GRUJIC, M.; MIHELIC, Z.

Surgical treatment of fractures of the forearm. Acta. chir.  
iugosl. 3 no.4:343-351 1956.

1. Traumatoloska bolnica u Zagrebu (ravnatelj doc. dr.  
Miroslav Grujic)  
(FOREARM, fract.  
surg. (Ser))

GRUJIC, M.

IGNJACEV, Z.; SLAVKOVIC, J.; MAGARASEVIC, M.; Grujic, M.; KONECNI, J.

Mitral stenosis with pulmonary hemosiderosis complicated by terminal tuberculous meningitis; contribution to the diagnosis and pathogenesis of miliary opacities in the lungs. Tuberkuloza, Beogr. 5 no.5-6: 395-402 Nov-Dec 53.

(MITRAL STENOSIS, compl.

\*tuberc., meningeal & pulm. hemosiderosis, diag. & pathogen.)

(TUBERCULOSIS, MENINGEAL, compl.

\*mitral stenosis & pulm. hemosiderosis, diag. & pathogen.)

(HEMOCHROMATOSIS

\*lungs, with mitral stenosis & meningeal tuberc., diag. & pathogen.)

(LUNGS, dis.

\*hemosiderosis, with mitral stenosis & meningeal tuberc., diag. & pathogen.)

GRUJIC, Milic, doc, dr.

Study on pathologico-anatomic changes of the lungs on the basis of clinical and roentgenological picture. Tuberkuloza, Beogr. 6 no.2-3:131-134 Mar-June 54.

1. Institut za tuberkulozu N R. Srbije u Beogradu (v.d. direktora Doc. dr. Milic Grujic)

(TUBERCULOSIS, PULMONARY, pathol.  
x-ray & clin. aspects)

GRUJIC, Milic, Doc.dr

The development of tuberculosis in man. Tuberkuloza, Beogr.  
6 no.5-6:276-283 Sept-Dec '55.

1. Institut za tuberkulozu NR Srbije (direktor doc. dr M. Grujic)  
(TUBERCULOSIS, PULMONARY, physiol.  
develop. in man(Ser))

GRUJIĆ, Milic, Doc.dr, Beograd

Review of post-war services in control of tuberculosis in Serbia  
Narodno zdrav., Beogr. 11 no.3:81-86 1955.  
(TUBERCULOSIS, prevention and control,  
in Yugosl.)



GRUJIC, Milic, Doc.Dr, Beograd

Review of the problem of convalescent homes for tuberculous patients. Narodno zdrav., Beogr. 11 no.4-5:125-216 1955.

1. Institut za tuberkulozu NR Srbije-Direktor: doc.dr Milic Grujic.

(TUBERCULOSIS,  
convalescent homes)  
(CONVELESCENCE,  
convalescent homes in tuberc.)

MYCERPTA BDICA Sec 15 Vol 13/1 Chest Dis. Jan 60

253. WHEN MAY A PROCESS OF LUNG TB BE CONSIDERED CURED? (A CONTRIBUTION TO THE STUDY OF THE PROBLEM OF CURABILITY OF TUBERCULOUS FOCI IN LUNGS - Kao se može smatrati da je tuberkulozni proces u plućima izlečen. (Prilog proučavanju problema o izlečivosti tuberkuloznih lezija u plućima) - Grujić M. Inst. za Tuberk. NR Srbije, Beograd - TUBERKULOZA 1958, 10/2 (59-64) Illus. 6

A report of 7 cases of deterioration of the process after a number of years of quiescence. Even the smallest caseous focus which has not been cured may present a source of new disseminations as soon as there are conditions for the multiplication of bacilli in the organism of the patient with such foci. Therefore all quiescent foci have to be treated until their final cure, viz. all inactive, latent foci not showing any change in shape or shadow for a long time have to be kept under regular survey of chest clinics until the foci are apparently cured.

Furlan - Golnik (SV. 19\*)

GRUJIC, M.

Problems of modern therapy of pulmonary tuberculosis. Higijena,  
Beogr. 11 no.2-3:226-233 '59.  
(TUBERCULOSIS PULMONARY ther.)

VUCKOVIC, Ij.; GRUJIC, M.; ZEGARAC, D.; DURIC-JANJATOVIC, O.

Results of the treatment of tuberculosis in children during recent ten years. Tuberkuloza, Beogr. 11 no.2:242-253 '59.

1. Institut za tuberkulozu NR Srbije, Beograd, direktor: prof. dr. M. Grujic.

(TUBERCULOSIS PULMONARY in inf. & child)